

- 1    1.    A glucose meter comprising:
- 2        (a)    means for processing a blood sample of a patient to provide a glucose
- 3    measurement; and
- 4        (b)    a communication interface to send data including said glucose measurement to a
- 5    processing center and to receive data from said processing center, wherein said processing means
- 6    is responsive to said data received from said processing center for modifying the processing of
- 7    the blood sample to provide an adjusted glucose measurement.
- 1    2.    The glucose meter of claim 1 wherein said processing means comprises a circuit for
- 2    analyzing a test strip containing said blood sample to provide said glucose measurement.
- 1    3.    The glucose meter of claim 2 wherein said data sent to said processing center through
- 2    said communication interface further includes a calibration code associated with said test strip.
- 1    4.    The glucose meter of claim 3 wherein said data received from said processing center
- 2    includes an aging factor indicative of variation in said test strip over time.
- 1    5.    The glucose meter of claim 1 wherein said data sent to said processing center through
- 2    said communication interface further includes an identifier of said patient.

1    6.    The glucose meter of claim 5 wherein said data received from said processing center  
2    includes a permissible glucose deviation for said patient.

1    7.    A glucose metering system comprising:  
2        (a)    a glucose meter for processing a patient's blood sample on a test strip to provide a  
3    glucose measurement; and  
4        (b)    a processing system coupled to said glucose meter and comprising means for  
5    collecting a plurality of said glucose measurements and for processing said plurality of glucose  
6    measurements to provide a modified method for processing said blood sample to provide an  
7    adjusted glucose measurement.

1    8.    The glucose metering system of claim 7 wherein said modified method for processing  
2    said blood sample is performed by said processing system and said adjusted glucose  
3    measurement is sent by said processing system to said glucose meter.

1    9.    The glucose metering system of claim 7 wherein said modified method for processing  
2    said blood sample is performed by said glucose meter.

1    10.   The glucose metering system of claim 8 wherein said modified method for processing  
2    said blood sample is a function of a permissible glucose deviation for said patient.

1 11. The glucose metering system of claim 8 wherein said modified method for processing  
2 said blood sample is a function of an aging factor indicative of variations in said test strip over  
3 time.

1 12. A glucose metering system comprising:  
2 (a) a glucose meter for processing a blood sample on a test strip having a response  
3 curve to provide a glucose measurement; and

4 (b) a processing system coupled to and located remotely from said glucose meter,  
5 said processing system comprising means for collecting data including a plurality of said glucose  
6 measurements from said glucose meter and a description of said response curve and for  
7 processing said data to provide an aging factor indicative of variations in said test strip over time,  
8 wherein said aging factor is used to provide said adjusted glucose measurement.

1 13. The glucose metering system of claim 12 wherein said adjusted glucose measurement is  
2 provided by said glucose meter.

1 14. The glucose metering system of claim 12 wherein said adjusted glucose measurement is  
2 provided by said processing system.

1 15. The glucose metering system of claim 12 wherein said description of said response curve  
2 comprises a single number code.

1       16. The glucose metering system of claim 12 wherein said description of said response curve  
2       comprises a polynomial equation.

1       17. A method for providing a glucose measurement comprising the steps of:  
2              sending a plurality of glucose measurements of a patient from a glucose meter to a  
3              remotely located processing center;  
4              evaluating said plurality of glucose measurements to derive a permissible glucose  
5              deviation for said patient; and  
6              processing a glucose measurement of said patient in response to said permissible glucose  
7              deviation in order to determine whether said measurement is an accurate measurement or an  
8              artifact.

1       18. A method for enhancing the care of a patient using a glucose meter comprising the steps of:  
2              sending data including a glucose measurement and meal information from a glucose  
3              meter to a remotely located processing center;  
4              processing said data by said processing center to provide an instruction for the patient;  
5              and  
6              sending said instruction to said glucose meter for display to the patient.

1       19. The method of claim 18 wherein said instruction indicates a time when a glucose  
2       measurement should be performed.

1 20. The method of claim 18 wherein said instruction indicates a medication dosage.